

1800

Yorkshire Philosophical Society.

ANNUAL REPORT

FOR

MDCCCXLI.





A N N U A L R E P O R T

OF THE COUNCIL

OF THE

YORKSHIRE

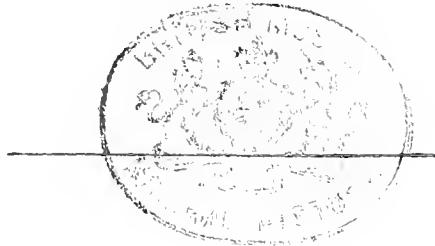
PHILOSOPHICAL SOCIETY

FOR

MDCCCXLI.

PRESENTED TO THE ANNUAL MEETING,

FEBRUARY 1, 1842.



Y O R K :

THOMAS WILSON AND SONS, HIGH-OUSEGATE.

1842.

TRUSTEES
OF
THE YORKSHIRE MUSEUM,
APPOINTED BY THE ROYAL GRANT.

HIS GRACE, EDWARD, LORD ARCHBISHOP OF
YORK.

GEORGE, EARL OF CARLISLE, K.G.

CHARLES WILLIAM, EARL FITZWILLIAM,
F.R.S., F.S.A.

THOMAS PHILIP, EARL DE GREY.

HON. AND VERY REV. HENRY HOWARD, D.D.
DEAN OF LICHFIELD.

SIR WILLIAM LAWSON, BART. F.S.A.

FRANCIS CHOLMELEY, ESQ. F.S.A.

ROBERT DENISON, ESQ.

REV. WILLIAM VERNON HAROURT, F.R.S.

WILLIAM HATFEILD, ESQ. F.G.S.

RICHARD JOHN THOMPSON, ESQ.

PATRONESSES
OF
The Yorkshire Philosophical Society.
HER MAJESTY THE QUEEN.
HER ROYAL HIGHNESS THE DUCHESS OF KENT.

PATRONS.

HIS GRACE THE ARCHBISHOP OF YORK.
EARL OF CARLISLE, K.G.
EARL FITZWILLIAM, F.R.S.
EARL OF TYRCONNEL, F.R.S.
THE VISCOUNT MORPETH.
THE LORD STOURTON.
THE LORD WHARNCLIFFE.
THE LORD FEVERSHAM.
THE LORD WENLOCK.

OFFICERS OF THE SOCIETY, 1842.

PRESIDENT :
EARL FITZWILLIAM, F.R.S.

VICE-PRESIDENTS :
STEPHEN BECKWITH, M.D.
REV. STEPHEN CREYKE.
GEORGE GOLDIE, M.D.
REV. JOHN GRAHAM.
REV. WM. VERNON HARCOURT.
WILLIAM HATFIELD, F.G.S.
REV. JOHN KENRICK.
BALDWIN WAKE, M.D.

TREASURER :
ROBERT DAVIES.

COUNCIL :
Elected 1840 . . . THOMAS ALLIS,
FAVIL JAMES COPSIE,
WILLIAM GRAY, JUN., F.G.S.
REV. CHARLES WELLBELOVED,
Elected 1841 . . . REV. T. EGERTON, F.G.S.
REV. W. HEY,
W. D. LITTLEDALE,
W. F. RAWDON, M.D.
Elected 1842 . . . JAMES ALLEN,
JOHN PHILLIPS, F.R.S., G.S.
HENRY ROBINSON,
WM. WHYTEHEAD.

SECRETARY :
THOMAS MEYNELL, JUN. F.L.S.

CURATORS:

NATURAL HISTORY DEPARTMENT.

GEOLOGY	....	J. PHILLIPS, F.R.S., G.S.
MINERALOGY	....	W. HATFIELD, F.G.S.
ZOOLOGY—VERTEBRATA	...*	
ANNULOSA	....	T. MEYNELL, JUN. F.L.S.
MOLLUSCA AND ZOOPHYTA	{ *	
COMPARATIVE ANATOMY	...	THOMAS ALLIS.
BOTANY—GENERAL	...	WM. D. HUSBAND.
BRITISH	...	O. A. MOORE.

ANTIQUITIES	....	REV. C. WELLBELOVED.
LIBRARY and MSS.	....	JOSEPH MUNBY.
LABORATORY	....	T. H. BARKER.
OBSERVATORY	....	W. L. NEWMAN, F.R.Ast.S.
METEOROLOGICAL INSTRUM.		JOHN FORD.

SUB-CURATOR OF THE MUSEUM:

HENRY BAINES.

* Those departments, for which no Curators are specially named, are considered to be under the direction of the Secretary and the Sub-Curator.

YORKSHIRE PHILOSOPHICAL SOCIETY.

REPORT OF THE COUNCIL

TO THE

ANNUAL MEETING OF THE SOCIETY ON THE 1st OF FEBRUARY, 1842.

TWELVE years have passed since the Yorkshire Philosophical Society emerged from a confined locality, to take possession of this ample edifice, and to act the part which had been prescribed for it—the part of a SCIENTIFIC INSTITUTION FOR THE COUNTY OF YORK: to urge and to aid its members in their philosophical pursuits; to cooperate with zeal and good faith in the exertions of other Societies; to feel and be stimulated by the spirit of our age and country; to share in all enterprizes for the advancement of knowledge; and always to welcome with sympathy and encouragement every attempt, from every quarter, to unfold the Natural History and Antiquities of Yorkshire.

Within those years how many important circumstances have occurred of a nature to test the sincerity of these views, and to affect the power of performing them! Burdened at the commencement with a debt of £1500. how was this Institution to contend with the cost of furnishing large apartments, laying out extensive grounds, providing laboratories and observatories, and restoring monuments of ancient art? The answer contained in this building, and in these grounds, is both encouraging and warning; it is the public sympathy with our objects, the public confidence in our proceedings, which have enriched our Museum, enlarged and beautified

our Grounds, and saved from ruin some of the fairest architecture of which ancient York can boast ; and that sympathy and confidence will never be withdrawn so long as we can honestly demand them.

Influenced by this conviction, the Society has continued and even extended in the present year the facilities of access to its Museum and Grounds ; these have been visited by a greater than the usual number of strangers ; twice opened for Horticultural Exhibitions, and twice for unreserved admission of thousands of gratified visitors. But the most important occasion when the usual Rules of Admission were relaxed or suspended, was that of the assembling, in August, of the Provincial Medical Association of England, to whose use this edifice and its contents were freely yielded for the days of their meeting in York. The collections of the Society then inspected at leisure drew forth expressions of high approbation, and the friendly interest which the Society manifested in the success of the Medical Association was fully appreciated and acknowledged by that distinguished body.

In the same spirit, and encouraged by this success, the Council would wish to welcome the Agricultural Association of Yorkshire, which has appointed its meeting, for 1842, to be held in this City in the month of August. The lapse of years has also brought within probability of fulfilment the expectation and desire of this Society to receive a meeting of that great British Association for the Advancement of Science, which, beginning within these walls in 1831, has held a prosperous and useful course through the large Cities and Towns of the Empire, and may now be induced by suitable invitations to re-assemble its numerous and distinguished members in Yorkshire.

A proposition that this meeting should authorize an invitation, in the name of the Society, to the British Association

to appoint a meeting in Yorkshire for 1843, and to make choice of the City of York for the place of assembly, has been adopted by the Council, and will be brought regularly before it at the close of this address ; and the Council have already taken steps to ascertain what degree of cooperation for the attainment of this object may be expected from the other Philosophical Institutions of the County. It ought by no means to be the desire of the Society that the Association should be welcomed to York with unnecessary parade or lavish expenditure, but the members will naturally demand for this national scientific assembly such preparations as its scientific objects require.

They will also inquire whether the state of our Museum, and the general conduct of our establishment, are such as to fit them for a second inspection by such a body of Naturalists and Philosophers, and, if any deficiencies are observed in any department, what are the measures proposed by the Council to remedy them.

By the attention of the Curators the Museum is placed in a condition to deserve more than a cursory examination ; it is rich in the treasures of nature and the monuments of art ; but it still labours under deficiency of means for proper display and orderly arrangement of the valuable donations which continue to be received from near and distant friends. The duties connected with the classification and conservation of the numerous specimens of Natural History and Antiquities have been performed, in many respects, to the satisfaction of the Society ; and if some part of these collections remains in an incomplete or unarranged state, this is not owing to any remissness of the several gentlemen to whose care they are entrusted, but to the actual want of space for suitable distribution of the objects.

The collection of Organic Remains has been entirely re-

arranged, and thus space is gained for exhibiting the fossils of the Silurian System which Mr. Murchison's labours have rendered so interesting, and of which a large donation from the Tortworth district, presented by Thomas Weaver, Esq. has furnished a valuable and characteristic illustration.*

The collection of Vertebrated Animals has received some excellent additions ; chiefly of birds, from Australia, presented by the Rev. Robert Affleck, Bart. and from Africa and Europe by Giles Munby, Esq. which are undergoing the process of preparation for the cases. The British Birds have been entirely rearranged ; but the now large and valuable collections of Foreign Birds and Reptiles require the scrupulous attention of a naturalist well versed in this branch of knowledge.

The collections of Comparative Osteology have been augmented by the purchase of sixteen skeletons prepared by Mr. Allis, who at the same time presented the bones of an elephant and some other gifts to the Society. From Philip Davies Cooke, Esq. we have received the skeleton of a Quagga, the head of a Zebu, and the body of an Alpaca. These additions are such as, when mounted, to render necessary some further cases for this branch of the collection.

Few additions have been made to the Invertebral Animals in the Museum ; but the Council have reason to think that an important accession to this department is prepared for us by Mr. James Backhouse, who, while engaged in long and zealous missionary labours, found leisure to exercise his love of natural history, and to remember this Museum, on the shores of Australia and Van Dieman's Land.

Adequately to display our collection of foreign Mollusca

* Mr. Weaver's valuable memoir on the district of Tortworth may be seen in the Geological Transactions.

and Zoophyta, augmented by this new supply, will require new cases.

The arrangement of the British Herbaria, begun in so excellent a manner by Mr. Hincks, has been extended, and the Curator reports, in addition to this satisfactory progress, in matters so essential to the credit of the Institution, that much activity prevails in the cultivation of British Botany in Yorkshire, and that several new localities of rare plants, important in reasoning on their geographical distribution, have been detected near York. Among these the Iceland Moss, (*Cetraria islandica*) believed to be new to England, was exhibited at one of the monthly meetings with the so called Reindeer Moss (*Gladonia rangiferina*), *Dicranum bryoides*, and a species of *Leskea* * new to Britain.

The Garden has been provided with a considerable number of rare plants; and the new fountain, presented by Mr. Walker, has been erected in an appropriate situation; but the completion of the grounds near the Hospitium, and the making of a drain there, have been postponed until further steps can be taken for the reparation of that building. During the past year, as on a former occasion, the Hospitium has been found of great service in giving full effect to the elegant exhibitions of fruits and flowers, which may now be viewed as an established part of the annual gratifications provided by the Society for the public.

It is recommended by the Committee which undertook the laborious direction of these beautiful exhibitions in the past year, that the time to be selected for the Horticultural Fete in 1842 be fixed with reference to the meeting of the Agricultural Association in August.

* Discovered by Mr. Spruce of the York Collegiate School.

Of Coins, the most interesting donation is one presented to the Society, by command of Her Majesty the Queen, through Lord Granville Somerset, Chancellor of the Duchy of Lancaster, consisting of a selection from the coins found at Cuerdale near Preston. The other Antiquarian Accumulations, mostly from localities in York, and illustrative of circumstances important in the history of our country, have now become so abundant as to defy all attempt at arrangement without some entirely new adaptation, not only of the cases but even of the rooms, an object for which the proceeds of the valuable Discourses delivered last year by the Curator were placed at the Society's disposal.

These large collections will, it is hoped, acquire a new interest from the publication (now speedily expected) of a work long contemplated by the Curator, and containing the result of his diligent studies into the ancient history of 'EBURACUM.' In the progress of this work the Council takes a lively interest, not only because the execution of it will fulfil a part of the most cherished objects of the Institution, but because much of the material evidence on which it rests will be found within our walls.

Among the donations to the Library are the continuations of the valuable Transactions of several learned Societies, and a gift of much interest, viz. the 'Annales des Mines de Russie,' presented by Gen. Tscheffkine.

The Laboratory is in an effective state; and the Curator, to whom the Society is indebted for this improvement, has found it serviceable in his lectures to the York School of Medicine.

The Observatory has been in regular operation, as far as the state of the weather and the condition of the instruments would permit. The Curator reports that some considerable improvement is desirable in respect of the mounting of the

telescope, and that a larger transit instrument ought to be placed on the excellent foundations which have been laid.

Besides the register of the Meteorological Phenomena at York, of which the subjoined table gives the mean monthly and annual results,* the Curator of this branch of the Society's pursuits has undertaken some researches on the distribution of temperature in the parts of the atmosphere near the ground, of which on a future occasion the result may be presented to the members. The Council, desirous of encouraging in York the prosecution of the interesting class of inquiries which respect climate and weather, regret that hitherto no sufficient means have been established here for registering the force and direction of the wind. The instruments of Whewell and Osler which are at this moment recording every momentary variation of the aerial movements over many and distant points of the globe, might, if placed

* METEOROLOGICAL REGISTER—YORK, 1841.

Months.	Barometer.			Rain.		Thermometer.					
	Mean height.	Highest range.	Lowest range.	Inches.	Mean maximum.	Mean minimum.	Mean temperature.	Highest range.	Lowest range.	Nights at or below 32° Fahrenheit.	Rainy days, more or less.
Jan.	29.79	30.36	29.00	1.70	36.8	27.9	32.4	49°	4°	22	8
Feb.	29.89	30.54	29.16	1.86	40.5	31.7	36.1	51	24	16	10
March	29.88	30.53	29.23	1.45	54.3	37.3	45.9	67	30	10	12
April	29.88	30.37	29.47	1 02	54.8	37.8	46.3	70	29	10	14
May	29.90	30.43	29.10	2 88	64.6	45.2	58.8	77	35	0	14
June	29.98	30.33	29.63	1.20	63.2	47.2	55.2	72	42	...	10
July	29.89	30.30	29.32	3 47	64.1	50.1	57.4	73	45	...	18
Aug.	29.89	30.32	29.50	2.72	67.0	51.5	59.3	75	44	...	13
Sept.	29.81	30.26	29.00	2 81	63.5	44.2	53.9	79	35	...	11
Oct.	29.53	30.10	28.78	3 56	52.1	41.2	46.7	59	32	2	23
Nov.	29.74	30.50	28.70	2.59	44.7	34.4	39.5	56	23	17	10
Dec.	29.63	30.20	29.03	1.60	42.3	34.0	38.2	51	22	16	15
			29.81			26.36			47.5		
			Average of the Year.	Inches in the Year				Mean temp,			
									93	153	

on this Museum, contribute much to the general amount of information on this important subject, and add a fund of gratification to the reasonable curiosity of our members.

The Council would wish to point out to meteorological observers in Yorkshire, the propriety of their taking part in the great system of combined periodical observations proposed by Sir John Herschel in 1835, and continued at his request, and by the exertions of M. Quetelet, by most eminent observers in various parts of Europe*.

It appears from this survey that our collections have again outgrown the means of orderly and appropriate exhibition. The time is come for desiring to occupy with ranges of new cases the few walls and limited area of floors still vacant. We require drawers for a numerous suite of geological specimens, ranges of vertical cases for the skeletons of birds, and the objects of antiquarian curiosity, and tables to display the Foreign Mollusca and Zoophyta. These are our wants in the Museum ; it is the opinion of the Council, that some change should be made in the system of warming the building, and that some steps should be taken towards providing the meteorological and astronomical observers with additional instruments.

* The observations requested by Sir John Herschel are fixed for the solstices and equinoxes ; that is to say, on the 21st December, 21st March, 21st June, 21st September, *every hour* from six in the morning of the 21st, to six in the morning of the following day. M. Quetelet desires thirty-six hours observations, viz. from six a.m. of the 21st, to 6 p.m. of the 22nd. In both sets of observations, if the 21st be Sunday, the observations are to commence on the 22nd, and in M. Quetelet's Series, if the 22nd fall on a Sunday, the observations take place on the 20th and 21st. M. Quetelet has recently given conveniently digested tables of the results communicated to him for 1841 ; but though his list includes twenty-four stations in Europe, there is no contribution from England. *Bulletin de l'Acad. Royale de Bruxelles Tom. VIII. Report of the Committee of the Royal Society, 1840.*

The alterations required for the most immediately pressing of all these wants, the appropriation of larger space for the collection of antiquities, are fortunately inexpensive, and may be entered upon without hesitation; but before this meeting can be called upon to consider the propriety of authorizing the expenditure of any considerable sum for other objects, it is necessary to advert to the state of the Society's finances.

On the 31st December, 1840, the Society was indebted for money borrowed to purchase land and houses, and for the several objects of the Institution, the sum of £5401. 1s. 11d., of which £1551. 1s. 11d. was a floating balance borrowed of the bank at 5 per cent., the remainder being at 4 per cent. The floating balance now due to the bank is £1321. 11s. 8d.

The sum of £63. 14s. 6d. has been received for admission tickets; but this sum, though larger than the payments in any previous year, affords but a very inadequate estimate of the total number of strangers who have visited the Museum.

The executors of the late Eustachius Strickland, Esq. have paid to the Society's account the legacy bequeathed to it by that early and lamented friend of our Institution. This generous gift is unconditional; but the Council presume that the meeting will follow out the recommendation contained in the last Report, and authorize them to appropriate this money to some object which would have been approved by the donor, and which may long preserve the memory of his taste and generosity.

The Council have had to regret that the Curator of Antiquities was prevented by illness from performing his intention of favouring the Society with a second series of his admirable discourses on the Antiquities of Yorkshire, embracing the

Monastic Remains of the County ; but they are in expectation that this desirable object will be accomplished in the ensuing autumn. The only public lectures delivered in the Museum since the last Report, were on the Phenomena of Sound by Mr. Robert Addams. This gentleman will probably be able to present some popular illustrations of the ELECTRIC TELEGRAPH of Wheatstone, and some other modern discoveries in the month of April ; the Council are moreover glad to announce that Professor Phillips has proposed to give four lectures on some of the fundamental truths of MODERN GEOLOGY with theoretical inferences, and practical applications, in the month of March ; and that Mr. Newman and Mr. Barker have expressed their willingness to oblige the Society by similar explanations of some points of ASTRONOMICAL and CHEMICAL science.

On this occasion the Council announce with regret the final withdrawal from office of the present Secretaries (Prof. Phillips, and Mr. Henry Robinson,) who, animated by earnest and sustained devotion to the objects for which we are united, have harmoniously performed the duties intrusted to them through many years.* The Council have unwillingly been compelled to yield to the reasons which induced these gentlemen to demand a release from what must ever prove an anxious labour ; satisfied that this Society will always receive in another form the benefit of their knowledge and experience, and well pleased to be able to recommend for the approbation of the meeting, as their successor, one so well qualified as Mr. Thomas Meynell to conduct the scientific and ordinary business of the Institution.

* Professor Phillips was elected in 1830, Mr. Robinson in 1837.

THE
TREASURER OF THE YORKSHIRE PHILOSOPHICAL SOCIETY,

IN ACCOUNT FOR THE YEAR 1841.

Dr.			Cr.
1841,	£. s. d.	1841,	£. s. d.
Annual Subscriptions and Arrears		Permanent Debt, viz.	
and Admission of new Members	579 0 0	Yorkshire Insurance Company	- - - 2500 0 0
Ladies' subscriptions, and keys of garden	- - - - 36 15 0	Wm. Gray, Esq.	- - 1000 0 0
Tickets at 1s. each	- - - - 63 14 6	Seven Members 50 <i>l.</i> each	350 0 0
Rents	- - - - 110 7 6		-----
Use of the Tent	- - - - 17 5 0		3850 0 0
Legacy, late E. Strickland, Esq.	- 89 0 0	Balance overdrawn Messrs. Swann and Co. Dec. 31st, 1840	- - 1551 1 11
Subscriptions to the Hospitium	- 57 10 0	Crown Rents	- 1 0 8
Ditto, boundary wall	- - - 3 10 0	Corporation Rent	- 6 12 6
Mr. Addams's Lectures	- - - 16 8 0	Insuranee	- - 5 0 0
Gas Light for Evening Meetings	- 1 10 0	Interest	- - 204 13 0
Dec. 31.		Gate Keeper	- - 10 0 0
Permanent Debt, viz.		Collector	- - 5 0 0
Yorkshire Insurance Company	- - - 2500 0 0	Sub-Curator, on account	200 0 0
William Gray, Esq.	- 1000 0 0		-----
Seven members 50 <i>l.</i> each	350 0 0		432 6 2
	-----	Sundry Bills, viz.	
Balance overdrawn	3850 0 0	Earthen Ware	- - 22 3 0
Messrs. Swann & Co.		Mr. Allis	- - 50 19 3
31st Dec. 1841	- - - - 1321 11 8	Mr. Robinson	- - 19 13 0
	-----	Mr. Phillips	- - 3 14 9
		Mr. Bailliere	- - 6 13 0
		Mr. Hill	- - 21 0 0
		J. Cluderay	- - 27 15 0
		Wilson & Sons	- - 14 1 0
		Noton & Son	- - 14 0 0
		Gas-light Co.	- - 15 5 6
		J. F. Brown	- - 9 9 10
		Gravel	- - 7 14 0
		Mr. Addams	- - 24 0 0
		H. Chapman	- - 8 13 0
		Sundry small bills	- 68 2 3
	-----		-----
			313 3 7
	£.6146 11 8		-----
	-----		£.6146 11 8

Audited 31st Jan. 1842.

T. ALLIS.

ANALYSIS OF DISBURSEMENTS

DURING THE YEAR 1841.

Ordinary Expenses.

		£. s. d.	£. s. d.
Rent, Rates, &c. :			
Rent to the Crown	... ...	1 0 8	
Rent to the Corporation	... ...	6 12 6	
Poor Rates, Highway Rates, and Land Tax	... ...	30 18 4	
Insurance and Water Rent...	... ...	10 5 0	
		48 16 6	
Salaries and Wages :			
Sub-Curator	... ...	100 0 0	
Servant	... ...	20 0 0	
Lodgekeeper	... ...	10 0 0	
Labourer	... ...	36 8 0	
Collector	... ...	5 0 0	
Occasional Labourers	... ...	13 0 0	
		184 8 0	
Interest on Debt :			
Interest on Mortgage Debt...	... ...	100 0 0	
Interest on £1000	... ...	40 0 0	
Interest to Bankers for being overdrawn	... ...	64 13 0	
		204 13 0	
Museum, Garden, Grounds, &c. :			
Painting and General Repairs	... ...	68 14 2	
Purchase and Preparation of Specimens	... ...	51 6 6	
Fountain	... ...	21 0 0	
Observatory	... ...	4 10 6	
Gravel and Leading	... ...	9 16 9	
		155 7 11	
Library :			
Books and Binding	... ...	21 9 0	
Incidentals :			
Printing, Advertising, and Stationery	... ...	24 11 6	
Coals, Gas Light, and Coke...	... ...	36 5 10	
Postages, Carriage, and Sundries	... ...	27 15 0	
		88 12 4	
		703 6 9	
<i>Extraordinary Expenses.</i>			
China Service for Horticultural Fêtes	... ...	22 3 0	
Mr. Addams's Lectures	... ...	24 0 0	
		£749 9 9	

R E S O L U T I O N S

PASSED AT THE ANNUAL MEETING, FEB. 1, 1842.

1. That the Report of the Council be adopted and printed for the use of the Members.
2. That the cordial Thanks of the Society are due, and are hereby rendered to John Phillips, Esq. F. R. S., and Henry Robinson, Esq. for their long, zealous, and most effective services in the laborious discharge of the important office of Secretaries to the Institution.
3. That the Thanks of the Society be given to the Vice-Presidents and Members of the Council retiring from office ; and to the Treasurer, and also to the Curators of the several departments of the Museum, for their invaluable services.
4. That Lord Feversham be requested to become a Patron of the Society.
5. That this Meeting authorize the Council to present an invitation to the British Association for the Advancement of Science, at its approaching meeting at Manchester, to appoint its meeting for 1843 to be held in York, at any time after the middle of August in that year, provided the Council see reason to believe that subscriptions can be raised, sufficient to justify the Society in guaranteeing the necessary expense.
6. That the Council be authorized to make application to the public authorities in York for their concurrence in the invitation to the British Association for the Advancement of Science.
7. That the Council be empowered, on certain days, to be selected by them, during the present year, to permit free admission to the Museum and Gardens to all persons ; the mode of admission to be regulated by the Council.
8. That the Regulations adopted by the Annual Meetings in 1836, 1837, 1838, 1839, 1840, and 1841, for the Admission of Strangers by the purchase of Tickets, be continued for the present year.
9. That the Resolution of the last Annual Meeting, empowering the Council to authorize the holding one or more Horticultural Meetings in the Society's Gardens, be continued in force during the present year.
10. That the best Thanks of the Society be given to the Chairman and Committee of Management of the Horticultural Fêtes held last year ; and that they be respectfully requested to continue their valuable services for the year 1842.



SUBSCRIBING MEMBERS

OF THE

YORKSHIRE PHILOSOPHICAL SOCIETY,

ELECTED IN 1841—42.

1841.

The Hon. Edwin Lascelles, *Harewood House.*
George Lloyd, Jun. *Eastfield House, York.*
Thomas Laycock, M.D. *York.*
George Ridsdale, *Old Hall, Wakefield.*
Capt. John Bentham, *York.*
William Hartley, *York.*
Joseph Clarke, *York.*
Richard Monckton Milnes, M.P. *Fryston Hall, Ferrybridge.*
William Noton, *York.*

HONORARY MEMBER, ELECTED FEB. 2, 1841.

Charles Hamilton Wake, 34th *Native Infantry East India Company's Service.*

1842.

Henry Claridge, *York.*
Capt. Graves, *Clifton, York.*
William Gott, *Leeds.*
Alexander Browne, *Beilby Grange, Wetherby.*
Mark Holman Shephard, *York.*

SCIENTIFIC COMMUNICATIONS

TO THE

GENERAL MEETINGS.

MARCH 2, 1841.—JAMES HAMERTON, Esq. of Hellifield Peel, read a Paper on the best methods of planting and procuring Forest Trees, which he illustrated by specimens of different varieties of Timber in their several states of perfection and decay.

APRIL 6.—Observations on a Roman Sepulchral Monument, in the Museum of Newcastle-upon-Tyne, by O'CALLAGHAN, Esq. Assistant-Surgeon, 4th Royal Irish Dragoon Guards.

MAY 4.—Meteorological Observations made at York, by JOHN FORD.

JAN. 4, 1842.—The Rev. JOHN GRAHAM, V. P., read a Paper, containing his own Observations on the Geology of Boulogne-sur-Mer, and the opposite coast of Sussex.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

Thomas Allis ..	Shells, from the lias of Gloucestershire ; gervillia and hippocodium ponderosum, from Tewkesbury.
Rev. John Graham ..	Ammonites, from Boulogne-sur-Mer. Fragments of large ammonites, from Speeton, Yorkshire. Specimens of retepore, millepore, and encrinites, from a sandstone quarry, near Harrogate.
Mr. Hands, (<i>Micklegate, York</i>)	Several plants, from the coal formation.
William C. Hewitson, Esq.	Geological specimens, from Madeira.
Dr. Lee, Hartwell ..	Fossils, from the Portland oolite, vale of Aylesbury.
William Oldfield, Esq. ...	The paddle of a Saurian in lias, from the Yorkshire coast. Fossilized wood, from Whitby.
Mr. Penrice, (<i>Elmbridge, Worcester</i>)	Fossils, from Dudley.
John Phillips, F.R.S., G.S.	Geological specimens, from the "Cornstone" and "Ludlow rocks," near Usk and Caerleon.
Mr. R. Ripley, (<i>Whitby</i>) ...	Belemnites elongatus. Cast of a Saurian.
T. Weaver, F.R.S., G.S. (<i>Lenden</i>)	250 minerals and fossils, illustrative of the Silurian Strata of Tortworth, in Gloucestershire.

M I N E R A L O G Y.

George V. Drury, Esq. A specimen of yellow ochre, from a quarry at Shotover Hill, Oxfordshire.

Wm. Hobson, Esq. (*York*) Pyrites, in slate.

Rev. Francis O. Morris, Marbles and minerals, 107 in number.
(*Ordsall, Doncaster*)

Z O O L O G Y.

VERTEBRATA.

Rev. Sir Robert Affleck, Bart. 56 skins of birds, from New Holland, including twelve parrots, three cockatoos, male rifle bird, bronze-winged pigeon, &c.

Thomas Allis Two rose-coloured grosbeaks.
The bones of the elephant; ditto of the tapir; ditto of the nylghau.
A large collection of prepared specimens of the intestines of birds and quadrupeds.
20 bottles or cases, containing reptiles and preparations of other animals, in spirits; skeleton of the woodpecker.

Mrs. Carter, (*New Brunswick*) *Bombycilla Carolinensis.*

Philip Davies Cooke, Esq. The alpaca, recently dead.

F.G.S. (*Owston, Doncaster*) The skeleton of the quagga.
The head of the zebu.

Charles Jas. Hanson, Esq. 9 British birds.
(*York*)

The skins of a stoat and squirrel.

Mr. W. Hardman... ... The head of a porpoise.

W. C. Harland, Esq. M.P. Egg of a goose, containing another smaller one, an egg within an egg.

Thos. Meynell, jun. Esq.... Curlew.

Giles Munby, Esq. ... The following birds : gypaeter, capercaille, coracias, grouse, creeper, and two musk rats.

Flamingo, glossy ibis, and partridge, from Africa.

Joshua Oldfield, Esq. ... Opossum.

Mrs. Short, (*York*) ... The skin of a large boa constrictor .

ANNULOSA.

Thomas Allis Several specimens of British moths.
Rev. Francis O. Morris ... Several foreign insects.

MOLLUSCA AND ZOOPHYTA.

BOTANY.

Dr. Morris, (York) ... A specimen of *Lobelia urens*.

ANTIQUITIES.

Matthew Carr, Esq. York	An antique head, Roman, in jet, found at York.
Mr. Danby, York...	... An old carved knife.
Mr. Etches, York ...	... An old ring, found in the garden of the Blue Coat School, York.
Rev. John Graham, York	A Roman urn, from the Railway Station, York.
Lord Claud Hamilton, M.P.	A mummy of an Ibis from Saccara.
Mr. Hands, Micklegate, York	An old carving in wood, date 1666.
Henry Robinson, Esq. York	Four Roman urns found at Clifton, near York, 1841. A sepulchral urn, supposed to be Roman, found in St. Leonard's Place.

COINS.

Rev. Sir Robt. Affleck, Bart.	An image of Mercury.
	8 Roman coins, consisting of two of Com- modus, æ. 1, and æ. 2, and six others.
John Bayldon, Esq. York	Coin of Hadrian, middle brass.
Mr. Etches, York...	... 1 Roman and several modern coins.
By command of Her Ma- jesty, the Queen, through Lord Granville Somerset, Chancellor of the Duchy of Lancaster.	A collection of coins, found at Cuerdale, near Preston, Lancashire, consisting of coins of Alfred, St. Edmund of E. Ang., Charles le Chauve, Eudes, and Cunnetti.
Rev. Wm. Taylor, F.R.S.	1 modern coin.
Rev. C. Wellbeloved	... 16 Roman coins, consisting of two Con- sular, and various imperial coins.

THE GARDEN.

John Ronald, Esq.	...	200 plants and shrubs, chiefly American.
Birmingham Botanic Garden	60	herbaceous plants.
Hull Botanic Garden	...	50 herbaceous plants.
Mr. Lowe, (<i>Clapton</i>)	...	80 herbaceous plants.

MISCELLANEOUS DONATIONS.

Mr. John Bleckly, York	...	A fire pipe for striking light.
Godfrey De Burgh, Esq.	...	An inlaid crucifix, from Jerusalem.
William Gray, jun., Esq.	...	A Chinese umbrella.
R. R. Pearce, Esq.	...	A carved image, from an old church in Spain.
Mrs. Christopher Wilson, Oxton Hall, Tadcaster		A box containing a number of curious articles from Mexico.

THE LIBRARY.

The Society of Arts	...	The Transactions of the Society, Part 1, Vol. 53.
The Royal Astronomical Society		The Greenwich Observations for 1839.
The Botanical Society of London		Report of Society's Proceedings for 1839

The British Association for the Advancement of Science	Report of Association for 1840.
The Cambridge Philosophical Society	Transactions of that Society, Vol. 7, Part 2.
L. W. Dillwyn, Esq. Swansea	His work, "Contributions towards a History of Swansea."
The Editor	The Railroad Quarterly Journal.
The Geological Society ...	Vol. 3, Part 2, of the Society's Transactions.
William Hobson, Esq. ...	Travels in Asia Minor. (Paul Lucas.)
Charles Howard, Esq. ...	Clegg's Book on Gas Lights.
Dr. Laycock,	His Treatise on the Nervous Diseases of Women.
The Leeds Literary and Philosophical Society	Transactions, 1840 and 1841.
Thomas Meynell, jun. Esq.	A beautiful Burmese Manuscript, on papyrus.
R. I. Murchison, Esq. Pres. Geol. Soc.	The Geology of Northern and Central Russia, in Europe, by R. I. Murchison, F.R.S., F.G.S., and E. De. Verneuil, Vice-President de la Société Géologique de France.
	The Geology of Kemaon, India, by Dr. M'Clelland.
The Rev. Thomas Myers, York	Experiments on Telescopes, by Peter Barlow, Esq.
The Royal Society of Edinburgh	Transactions of the Society, Vol. 14, Part 2, and Vol. 15, Part 1. Also, the Proceedings of that Society, 1840-41.
General Tcheffkine ...	Annuaire du Journal des Mines en Russie, 5 vols. 8vo.
Thos. Weaver, Esq. F.R.S., F.G.S. the author	On the Composition of Chalk Rocks, by invisible inorganic bodies.
The Zoological Society of London	The Annual Report for 1841. Also an Account of the Proceedings of that Society, 1840.

THE FOLLOWING ARTICLES WERE PURCHASED
BY THE SOCIETY.

52 Specimens of British Birds, of Mr. Allis.

31 Specimens of British Birds, of Mr. Chapman.

The Skins of the Spider Monkey, the Rough Lemur, the Australasian Opossum and Rat, of Mr. Allis.

93 Species, 391 Specimens of Eggs of Birds, of Mr. Allis.

Also Skeletons of the under-mentioned Animals :—

The Skate, Chameleon, Vampyre Bat, the Jerboa, Red-Crested Parrot, Francolin Partridge, Barn Owl, Sandwich Island Goose, Pomerin Gull, Vulture, Black Swan, Curassow, Nuthatch, Foreign Grosbeak.

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